

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P261353

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2904.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

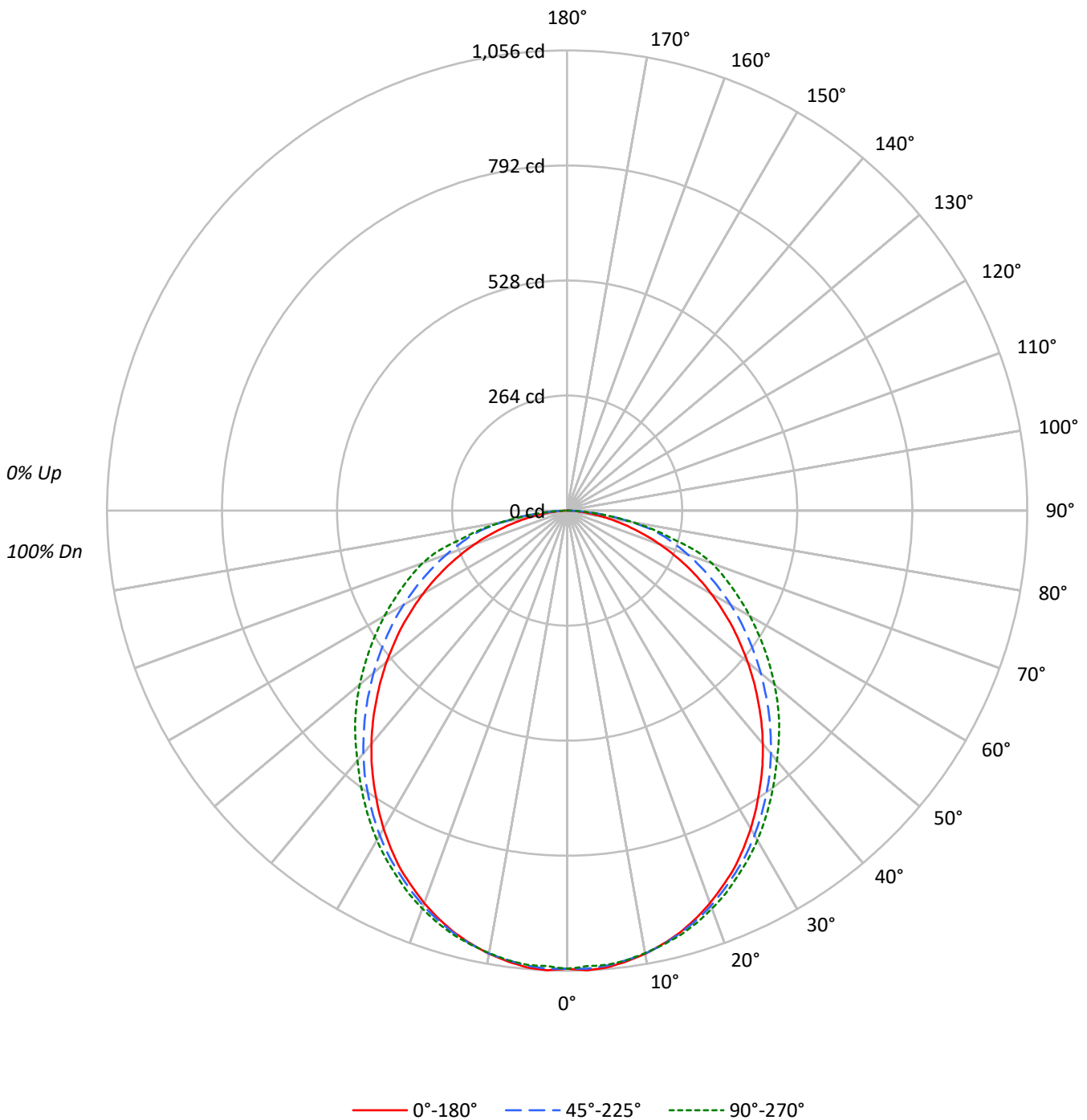
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1415	1415	1415
5°	1421	1416	1413
10°	1411	1410	1409
15°	1396	1399	1404
20°	1372	1382	1392
25°	1346	1360	1374
30°	1309	1336	1357
35°	1268	1308	1335
40°	1227	1278	1315
45°	1180	1245	1309
50°	1133	1214	1301
55°	1084	1188	1297
60°	1027	1168	1303
65°	966	1154	1329
70°	889	1159	1391
75°	789	1200	1296
80°	659	1138	1168
85°	492	909	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.4
10°-20°	282.7	9.7
20°-30°	421.3	14.5
30°-40°	495.9	17.1
40°-50°	503.9	17.4
50°-60°	453.1	15.6
60°-70°	358.0	12.3
70°-80°	227.1	7.8
80°-90°	62.7	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	803.4	27.7
0°-40°	1299.3	44.7
0°-60°	2256.3	77.7
0°-90°	2904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1052	1044	1048	1046	1046	100
15°	1002	997	1004	1007	1008	282
25°	906	905	916	922	926	417
35°	772	777	796	805	813	483
45°	620	629	654	674	688	479
55°	462	474	506	539	553	412
65°	303	319	362	402	417	301
75°	152	178	231	251	249	161
85°	32	55	59	54	54	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.3	1051.3	1051.3	1051.3	1051.3
2.5°	1056.1	1048.4	1052.3	1050.3	1046.5
5°	1052.3	1043.6	1048.4	1046.5	1046.5
7.5°	1043.6	1036.8	1040.7	1039.7	1040.7
10°	1032.9	1026.2	1032.0	1032.0	1031.0
12.5°	1018.4	1012.7	1019.4	1019.4	1020.4
15°	1002.0	997.2	1004.0	1006.9	1007.8
17.5°	981.7	976.9	985.6	988.5	991.4
20°	958.5	956.6	965.3	968.2	972.1
22.5°	932.5	932.5	941.1	945.0	950.8
25°	906.4	905.4	916.0	921.8	925.7
27.5°	875.4	876.4	889.9	895.7	900.6
30°	842.6	844.5	860.0	866.7	873.5
32.5°	807.8	811.7	829.1	836.8	843.6
35°	772.0	776.9	796.2	804.9	812.6
37.5°	736.3	743.1	763.4	772.0	780.7
40°	698.6	704.4	727.6	738.2	748.9
42.5°	660.0	667.7	690.9	706.3	718.9
45°	620.3	629.0	654.2	673.5	688.0
47.5°	580.7	592.3	616.5	642.6	655.1
50°	541.1	552.7	579.8	608.7	621.3
52.5°	500.5	512.1	543.0	573.0	586.5
55°	461.9	473.5	506.3	539.2	552.7
57.5°	421.3	433.9	470.6	504.4	517.9
60°	381.7	394.2	433.9	469.6	484.1
62.5°	343.0	356.6	398.1	435.8	450.3
65°	303.4	318.9	362.4	402.0	417.4
67.5°	264.8	282.2	327.6	369.1	385.5
70°	226.1	246.4	294.7	337.2	353.7
72.5°	188.4	210.6	261.9	304.4	313.1
75°	151.7	177.8	230.9	251.2	249.3
77.5°	116.9	145.9	196.2	200.0	205.8
80°	85.0	116.9	146.9	154.6	150.7
82.5°	56.0	87.9	105.3	101.5	100.5
85°	31.9	55.1	58.9	54.1	54.1
87.5°	13.5	22.2	19.3	14.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)